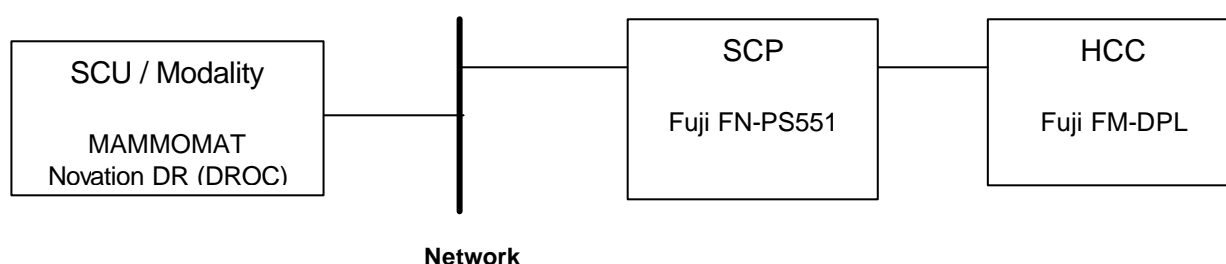


Product:	MAMMOMAT Novation DR (DROC)
Title:	Specific Hardcopy Camera Information for Fuji FM-DPL / FN-PS551
Affected systems: MAMMOMAT Novation DR with Image Processing, V1.0 and Hardcopy Cameras	
Replaces:	n.a.

1 General Information

1.1 Block Diagram



1.2 Available Film Size

Application			Film Type	Medium Type
14"x17"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
14"x14"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
11"x14"	Portrait	yes	DI-AL	Blue-based
	Landscape	yes		
10"x12"	Portrait	n.a.	n.a.	n.a.
	Landscape	n.a.		
8"x10"	Portrait	yes	DI-AL	Blue-based
	Landscape	yes		
others		n.a.	n.a.	n.a.

- yes - Film size is available and released
 no - Film size is available but not released
 n.a. - Film size is not available

1.2.1 Supported Format

Supported page format is always 1x1

MAMMOMAT Novation DR (DROC) Camera Installation

Specific Fuji FM-DPL / FN-PS551 Information

1.3 Restrictions

For HCC-independent restrictions, see also the general restrictions in the MAMMOMAT Novation DR document.

Linear LUT(Dmax=3.5) is out of tolerance. Mammography Group SP WH will accept this software version; the mammography-specific Reference LUT is within tolerance.

2 Modality SW Configurations / Parameters

Refer to: MAMMOMAT Novation DR/CB-DOC/ Installation/Installations instructions.

File name	Content	Remarks
fujihighres.cfg	Configuration DROC Software Configuration Edit ./installed/raw/vdevfujihighres_001 Edit ./installed/raw/vdevfujihighres_001's configuration file: ./linx_mp/resources/installed/raw/vdevfujihighres_001/fujihighres.cfg ----- Group: Server factory object name = RMS://siemens06/installed/services/jss_server:PJF_OREF spooler name = DicomPrintSpooler priority = normal max retries = 20 ----- Group: Output Device device type = FUJI High Resolution ----- Group: Print Job Description device name = FMDPLHR device address = 146.254.124.80:104 request annotation SOP class = false request print job SOP class = false print job poll period = 15 print job timeout = 300 printer poll period = 15 association timeout = 0 collate = false custom lut file = photometric interpretation = automatic ----- Group: Film Session copies = 1 medium type = BLUE FILM film destination = PROCESSOR film session label = DROC film memory allocation = 0 print priority = MED ----- Group: Film Box	This parameter can be changed within Netscape Service Login. Only important parts of the file shown.

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	<p> available image display formats = PORTRAIT\1,1 image display format = PORTRAIT\1,1 annotation display format id = FORMAT1 number of annotation boxes = 6 annotation boxes per text line = 3 max annotation box text string size = 63 annotation string = max text line size = 189 number of image text lines = 5 image text position = left image text overlap = overwrite image text reorient = reorient_0 film size id = automatic film magnification type = CUBIC film smoothing type = NONE border density = BLACK empty image density = BLACK full pixel range = true min density = 20 max density = 350 configuration info = CS100 trim = NO </p> <p>-----</p> <p> Group: Image Box polarity = NORMAL available image magnification types = REPLICATE BILINEAR CUBIC image magnification type = REPLICATE image smoothing type = NONE true size capable = true enable selective true size = true pixel size = 70 pad = take image text line 1 = <Off> image text line 2 = <Off> image text line 3 = <Off> image text line 4 = <Off> image text line 5 = <Off> </p> <p>-----</p> <p> Group: PORTRAIT\1,1 width = 3337 height = 4114 </p>	
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Note:	<p> If Film Size ID is "automatic", the appropriate film size (Large Patient Matrix-size=large Filmsize) will be printed. After a change of Film Size ID in Netscape you have to press the Update button and restart the Sun!!! </p>
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MAMMOMAT Novation DR (DROC) Camera Installation

Specific Fuji FM-DPL / FN-PS551 Information

3 Hardcopy Camera, Configuration

3.1 Identification

Device Type:	DICOM Print Server(SCP)	Printer
Manufacturer / Device Name:	FUJI Photo Film / FN-PS 551	FUJI Photo Film / FM – DPL
HW Revision:	Dell – PC, Optiplex GX 1	Ser. – No. 9632026
SW Revision:	A 06	W01-02 (Main Unit)
Image Memory:	6 GB (128MB Main Memory)	48 MB
Hard disk:	6.4 GB	None
Number of Operating Panels:	1 PC keyboard	1 built-in keypad
No./Type of Input:	1 Ethernet Board,	FIX 90 A
No./Type of Output:	1 SCSI-PEI01A Board (FUJI-DMS Pro-tokoll)	n.a.
Physical Network Interface:	100/10Base-T Ethernet, UTP/STP	None
Network Protocol:	TCP / IP	None
DICOM Conformance Statement:	FUJI Network Print Server FN-PS551, May 2001, 4 th Edition	None

3.2 SCP / Printer Settings

File name	Content	Remarks
None	FUJI Service Utility setting:	Provided by FUJI
	Protocols: DICOM	Properties
		Network port no. = 104
		data transfer timeout = 600 sec.
		Print Server Application Entity = one to each printer
		Data receive if the printer is off-line = enable
	Printer: FMDPL	Properties
	Name:	AE Title of DICOM = FMDPL
		fine printing = FMDPLHR
	Interface:	interface = E-i/f
		pixel clock = 1,0 µsec/pixel
		version = type 1
		filmsize = 14x17
		film medium = blue
	Model:	model = FN-PS551
		manufacturer = FUJI PHOTO FILM CO, LTD

MAMMOMAT Novation DR (DROC) Camera Installation

Specific Fuji FM-DPL / FN-PS551 Information

Clients: DICOM, siemens06	Properties
name:	Hostname: siemens06
	IP adress = (from systemadministrator)
protocol:	Protocol:DICOM
	Application Entity Title = DIRECT_DIGXRAY
	Attribute list error(0107H warning) = indicate
	Attribute value out of range(0116H warning) = indicate
	Image size larger than image box(B604H warning) = indicate
	N-Event-Report-RQ = disabled
	Use Presentation LUT = No
	Data transfer timeout = enabled
	Use extension format = No
magnify:	procedure = A-VR
	smoothing type = SHARP
	Adj. parameter = SHARP
	edge detectionb = OFF
	detection level = 600
	sharpness = 130
	character color = White
LUT:	procedure = SAR
	default LUT = 1 (linear)
	Adj. parameter LUT = 1
	rtable no. = 17
	Max. density = 300
	Min. density = 20
	number of tuning points = 5
	tuning point 1, density = 43, shift = 2,contrast = 100
	tuning point 2, density = 80, shift = 3,contrast = 100
	tuning point 3, density = 120, shift = 6,contrast = 100
	tuning point 4, density = 175, shift = 8,contrast = 100
	tuning point 5, density = 225, shift = 10,contrast = 100
printer:	fixed, FM-DPL

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	output format1:	border density = 300
		polarity = normal(pos.)
		trim density = 300
		trim = off
		trim width = 1 pixel
		number of copies = 1
		film size = 14x17
		medium type = blue
		film orientation = portrait
		mirror = off(normal)
		overlay threshold density = 120
	output format2:	a margin between image = 20 pixel
		Image Layout = concentration
Annotation: Print Server	upper left/center/right = (nothing selected)	
	lower left/center/right = (nothing selected)	
Logging:	network = (No)	
	printer = (No)	
	DICOM = normal	
	output image to file = off	
	Precedence = Input	
Sorting:	sorting conditions = (nothing selected)	

3.3 Error and Warning Messages

n.a.

4 Image Quality and Optical Density

4.1 Reference Film and LUT

Released Film Type	DI-AL	BLUE FILM
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Refer to: MAMMOMAT Novation DR/CB-DOC/ Installation/Installations instructions.

4.2 Real Size Scaling

n.a.

MAMMOMAT Novation DR (DROC) Camera Installation

Specific Fuji FM-DPL / FN-PS551 Information

5 Abbreviations

AE Title	Application Entity Title
DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW / SW	Hardware / Software
HCC	Hardcopy Camera
LUT	Look Up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
TCP/IP	Transfer Control Protocol / Internet Protocol
PLA	Pacsnet Logical Address

6 Changes to Previous Version

n.a.

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